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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,932	07/07/2003	Daniel Berger	239818US6	6924
22850 7.	590 07/13/2005	1	EXAM	INER
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			HONG, JOHN C	
			ART UNIT	PAPER NUMBER
			3726	<u> </u>

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/612,932	BERGER ET AL.			
Office Action Summary	Examiner	Art Unit			
	John C. Hong	3726			
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet w	rith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatie - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory i - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a con. a reply within the statutory minimum of the ceriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	30 March 2005.				
<u> </u>	<u> </u>				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-23 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-23 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction as	hdrawn from consideration.				
Application Papers					
9) The specification is objected to by the Exa	miner.				
D)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection t	o the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the country is a second country.	•	. , .			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in a priority documents have been ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 Notice of Draftsperson's Patent Drawing Review (PTO-94: Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	''	(s)/Mail Date Informal Patent Application (PTO-152) 			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,5,8,11,12,16,19,22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by GB2185116.

'116 discloses: Regarding Claims 1,5,8 and 23 a method of distributing the blades of a turbomachine rotor in which radial and tangential static moments of a plurality of blades are initially measured, and then the blades are classified in pairs on the basis of a determined selection criterion depending on the previously measured two static moments, and finally the blades of the selected pairs are mounted one by one on the rotor in diametrically opposite positions (Fig. 1; page 1, lines 110-118; page 2, lines 65-77);

Regarding Claim 11; a method of distributing blades on a rotor, comprising: measuring radial and tangential static moments of a plurality of blades, classifying the blades in the plurality in pairs according to said radial and tangential static moments; and after the measuring and classifying, mounting the blades of the pairs one by one on the rotor in diametrically opposite positions (Fig. 1; page 1, lines 110-118;page 2, lines 65-77);

and Regarding Claims 12,16,19 and 22, a method of distributing blades on a turbomachine rotor, comprising: measuring radial and tangential static moments of each blade individually, classifying the blades in pairs based on the measured radial and tangential static

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moments; and mounting the blades of the pairs one by one on the rotor in diametrically opposite positions (Fig. 1; page 1, lines 110-118;page 2, lines 65-77).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-4,6,7, 9,10,13-15,17,18,20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over GB2185116 in view of SU858429.

'116 teach the limitation except the selection criterion comprises determining for two given blades both a radial/axial static moment difference and a tangential static moment difference, and in verifying that the radial/axial static moment difference is not greater than a first determined value and that the tangential/axial static moment difference is not greater than a second/third determined value.

'429 teach the selection criterion comprises determining for two given blades both a radial/axial static moment difference and a tangential static moment difference, and in verifying that the radial/axial static moment difference is not greater than a first determined value and that the tangential/axial static moment difference is not greater than a second/third determined value (Abstract translation).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ the step of '429 on the method of '116 so as to balance the blades.

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Regarding Claims 3,4,7,10,14,15,18,21, the determined value is considered to have been obvious matter of choice, since it has been held discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ (CCPA 1980)

Response to Arguments

5. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection. See the new Office action.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John C. Hong whose telephone number is 571-272-4529. The examiner can normally be reached on M-F(07:00-16:30)First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on 571-272-4526. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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John C. Hong Primary Examiner Art Unit 3726

jh July 10, 2005